Name of Work:- Improvements to drains of valmiki beedi in ward No.07 Byatarayanapura
Estimated Cost:- 20.00 akhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
	5th E Cross		2	110.00	0.80	0.70	123.20		
	Culverts		2	6.00	2.00	1.20	28.80		
	Desilting of existing drains nethajinagara		1	160.00	0.45	0.60	43.20		
					TOTAL		**195.20**	137.80	26899.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.13, It.4.3)**								
	Basic Rate:	cum	5102.00						
	Area Weightage @ 6%		306.12						
	Total		5408.12						
	RCC DRAIN-BOTTOM								
	5th E Cross		2.00	110.00	0.80	0.15	26.40		
	Culverts		2.00	6.00	2.00	1.20	28.80		
					TOTAL		**55.20**	5408.12	298529.00
3	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Culverts		2	6.00	0.60	0.15	1.08		
	coping		4	6.00	0.60	0.10	1.44		
					TOTAL		**2.52**	5747.32	14483.25
	Basic Rate:	cum	5422.00						
	Area Weightage @ 6%		325.32						
	Total		5747.32						

4	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-25. Item No. 5.3)								
	Culvert		4	6.00	0.60	0.90	12.96		
					TOTAL		**12.96**	4871.76	63138.01
	Basic Rate:	cum	4596.00						
	Area Weightage @ 6%		275.76						
	Total		4871.76						
5	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 115 / Item No. 15.4 / PWD SR 2018-19								
	Culvert		4	6.00		0.90	21.60		
					TOTAL		**21.60**	148.40	3205.44
	Basic Rate:	sqm	140.00						
	Area Weightage @ 6%		8.40						
	Total		148.40						
6	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)								
	Basic Rate:	cum	5659.00						
	Area Weightage @ 6%		339.54						
	Total		5998.54						
	Bottom								
	5th E Cross		2.00	110.00	0.80	0.15	26.40		
	Side Wall								
	5th E Cross	**2x2**	4.00	110.00	0.15	0.30	19.80		
							46.20	5998.54	277133.00

7	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Basic Rate:	Tonne	70966.00						
	Area Weightage @ 6%		4257.96						
	Total		75223.96						
	Reinforcement for side wall						46.20		
			At 55 Kg % per cum				**2.54**	75223.96	191145.00
8	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						
	SIDE WALL								
	5th E Cross	2x4	8	110.00		0.30	264.00		
							264.00	483.36	127608.00
9	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	Sqm							
	Covering Slab								
	5th E Cross		367		0.60	0.75	165.15		
	covering slab for netajinagara		268		0.60	0.90	144.72		
							309.87	2100.00	650727.00
10	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	Culvert		20	1.80	0.60		21.60		
					TOTAL		**21.60**	5111.00	110397.60
11	Providing and fixing MS Grating 260x260 mm(Page No.1X, Sl No.234, code No.0771)								
			44				44.00		
					TOTAL		**44.00**	84.75	3729.00

12	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item No. 17.1)								
	Basic Rate	cum	57.00				195.20	94.34	18416.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10K		32.00						
	Total		89.00						
	Add Area Weightage6%		5.34						
			94.34						
13						Sub Total			1785410.30
14						Add 12% GST charges			214249.24
15						Miscelleneous charges			340.47
16						Total			2000000.00

1)This is certified that the work spot comes under BBMP limits only.

2) The work spot is inspected by me

3) The items Provided in the Estimate are quite Essential

4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

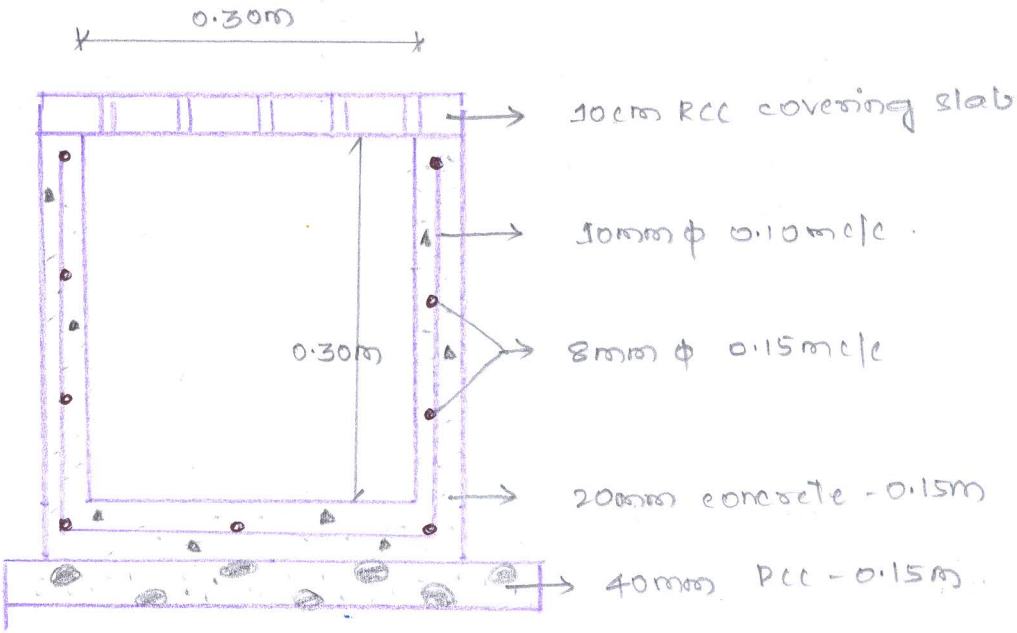
Administrative Approval
Accorded For Rs 20 crores only
Head of A/C. P1771
CER NO : 26 Dt. 09.05.2019

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. 20.00 Twenty lakhs
Head of A/c. P1771
Div. Ref. No. 19/19-20 Date 09/05/19

AE 9/05 EE(BTP) 9/5

Name of work: Improvements to drains of Valmiki beedi in Ward no-07, by elerayanapura.



CROSS-SECTION OF RCC DRAIN

M.N.D
AE(W4)

Assistant Executive Engineer
Koramangala Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092